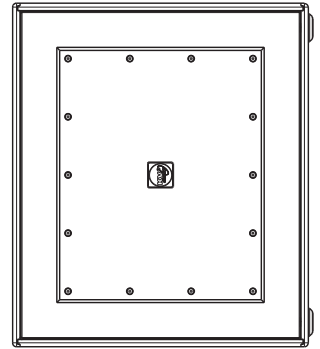


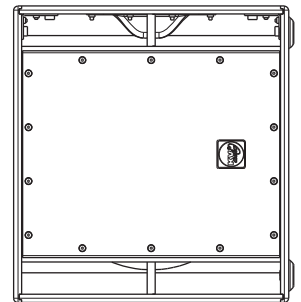


# ESD Subwoofers User Guide

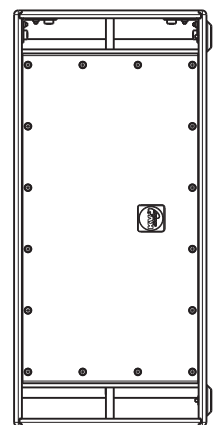
- ESD1.12



- ESD1.15



- ESD1.18



The future of sound.  
Made perfectly clear.

At KV2 Audio our vision is to constantly develop technologies that eliminate distortion and loss of information providing a true dynamic representation of the source.

Our aim is to create audio products that absorb you, place you within the performance and deliver a listening experience beyond expectation.



**ESD1.12**



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**ESD1.15**



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**ESD1.18**



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## ESD1.12

### Application:

- Specifically designed as a passive subwoofer to accompany and compliment the ESD6 as a true full range system
- For fixed installation
- Bars-small entertainment projects
- Small footprint and dimensions allow placement under seating and fixtures

MODEL NUMBER:

**ESD1.12**

PART NUMBER:

**KVV 987 225**



### Description:

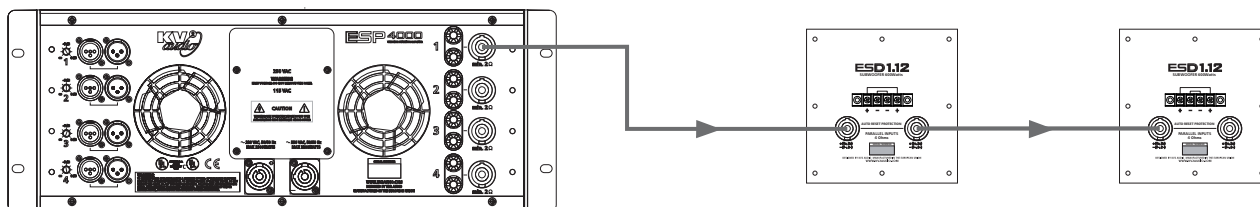
The ESD1.12 is a very compact passive, high output subwoofer. The ESD1.12 is a passive version of the active EX1.2 12" subwoofer and features the same high quality neodymium driver. This subwoofer's low profile and size makes it ideal for discreet applications.

With a power handling of 600 watts, the ESD1.12 is capable of delivering tight, fast, controlled bass response at high output levels from a compact cabinet.

The ESD1.12 woofer is protected by a reverse thermal-circuit breaker (autoreset) and features a professional Baltic Birch construction with a wear resistant polymer coating and a specially designed handle for simplified handling and carrying. The ESD1.12 is also available in any RAL colour (white RAL9003 on stock).

### Connection:

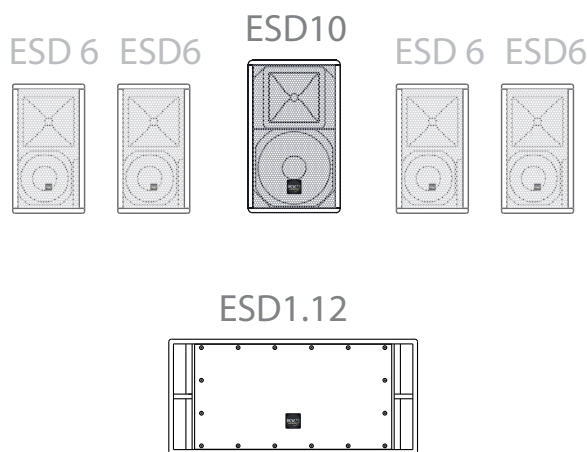
The ESD1.12 features both Speakon (NL4) connectors and a terminal block. The connectors are interconnected in parallel to allow the "daisy chaining" of additional ESD1.12's.



PARALLEL CONNECTION OF THE ESD1.12 (4Ω) - TOTAL IMPEDANCE 2Ω

### Configurations example:

ESD1.12 + 1x ESD10 or 4x ESD6



ESD1.12 + 1x ESD10 or 4x ESD6

## ESD1.12 Specifications:

### System Acoustic Performance

Max SPL Long-term	124dB
Max SPL Peak	127dB
-3dB Response	38Hz ÷ 150Hz
Recommended Power	600W
Sensitivity	97dB
Impedance	4Ω
Crossover Point	80Hz ÷ 150Hz

### Low Frequency Section

Acoustic Design	<i>Twin Asymmetrical loading</i>
Number of Drivers	1
Woofer Size / Voice Coil Diameter / Design	12" / 3" / <i>Inside outside</i>
Magnet Type	<i>Neodymium</i>
Diaphragm Material	<i>Epoxy Reinforced Cellulose</i>
Protection	<i>Thermal breaker - autoreset</i>

### Speaker Input

Speaker Input	<i>2x Neutrik Speakon®, Terminal Block</i>
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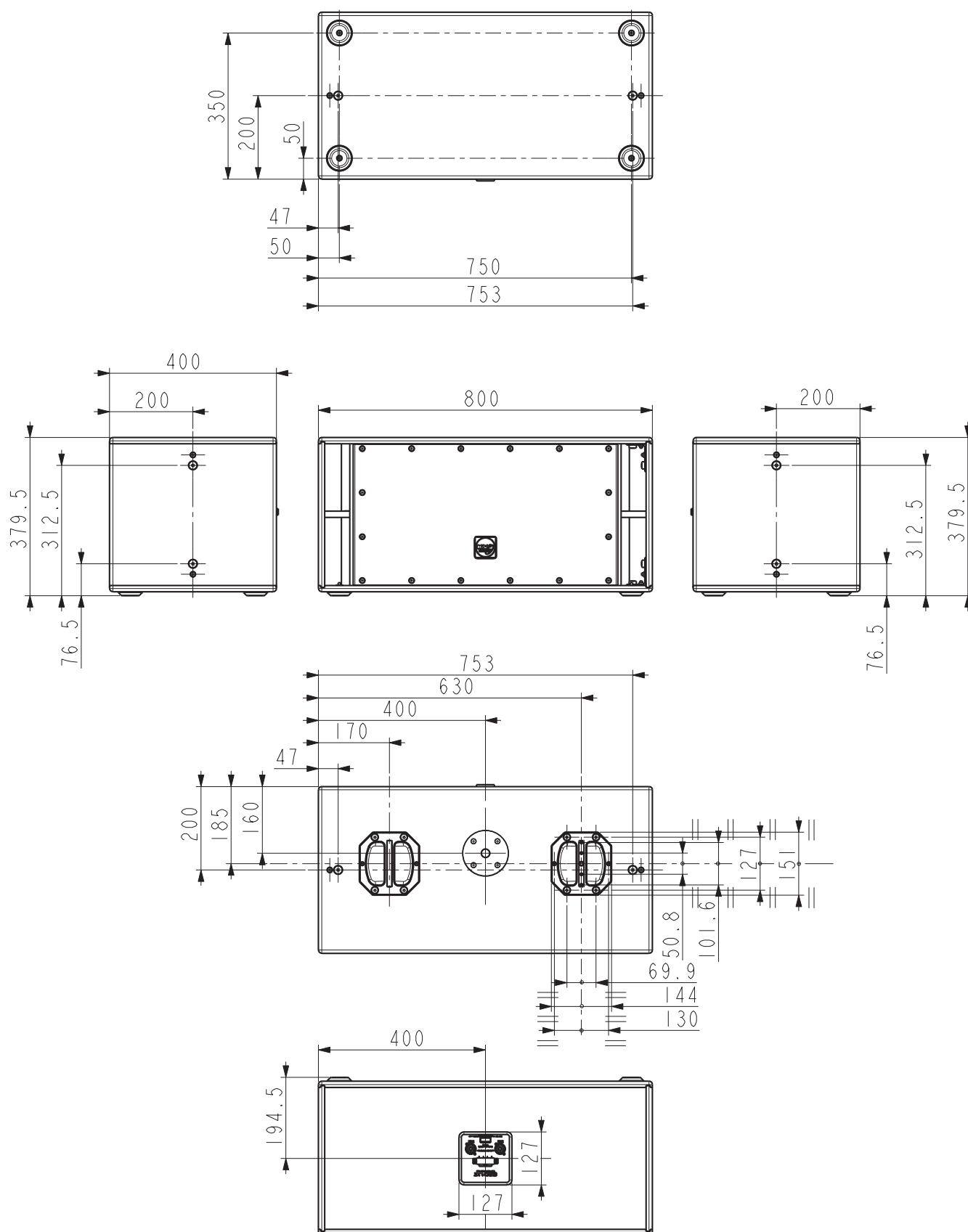
### Cabinet

Cabinet Material	<i>Baltic birch</i>
Handles	2
Pole Mount	<i>M20</i>
Flyware	<i>8x M10 suspension points</i>
Color	<i>"Orange peeled" Matt Black or any RAL</i>

### Physical Dimensions

Height	<i>370mm (14.57")</i>
Width	<i>800mm (31.49")</i>
Depth	<i>400mm (15.75")</i>
Weight	<i>28kg (61.7lbs)</i>

ESD1.12



Drawing

## ESD1.15

### Application:

- Specifically designed as a passive subwoofer to accompany any of the ESD range to create true full range system performance
- Fixed installation
- Portable PA
- Bars-small entertainment projects
- Scalable into larger systems



MODEL NUMBER:  
**ESD1.15**  
PART NUMBER:  
**KVV 987 241**

### Description:

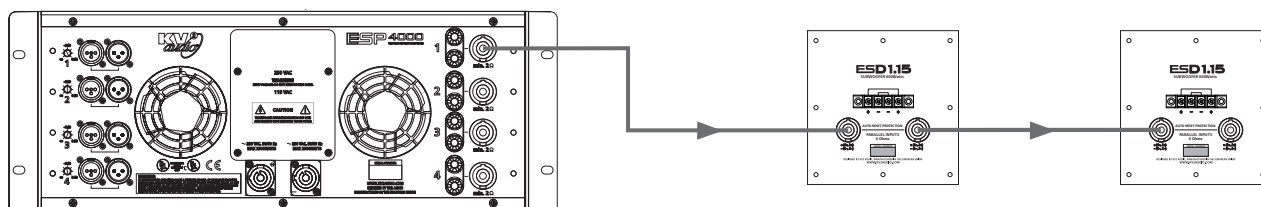
The ESD1.15 is a compact passive, high output subwoofer. The ESD1.15 features a single 15" neodymium driver. Offering a peak SPL of 130dB the ESD1.15 produces considerable output yet in true KV2 style retains a compact footprint. Multiple units of ESD 1.15's can be stacked together to create a powerful and scalable subwoofer system.

With a power handling of 600 watts and high efficiency, the ESD1.15 is capable of delivering fast, controlled bass response at high output levels from a compact cabinet.

The ESD1.15 woofer is protected by a reverse thermal-circuit breaker (autoreset) and features a professional Baltic Birch construction with a wear resistant polymer coating and a specially designed handle for simplified handling and carrying. The ESD1.15 is also available in any RAL colour (white RAL9003 on stock).

### Connection:

The ESD1.15 features both Speakon (NL4) connectors and a terminal block. The connectors are interconnected in parallel to allow the "daisy chaining" of additional ESD1.12's.



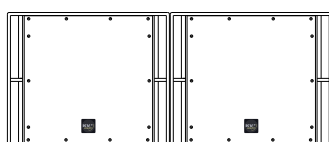
PARALLEL CONNECTION OF THE ESD1.15 (4Ω) - TOTAL IMPEDANCE 2Ω

### Configurations example:

2x ESD1.15 + 2x ESD10 or 2x ESD12



ESD1.15



2x ESD1.15 + 2x ESD10 or 2x ESD12

## ESD1.15 Specifications:

### System Acoustic Performance

Max SPL Long-term	127dB
Max SPL Peak	130dB
-3dB Response	37Hz ÷ 150Hz
Recommended Power	600W
Sensitivity	99dB (half-space area)
Impedance	4Ω
Crossover Point	80Hz ÷ 150Hz

### Low Frequency Section

Acoustic Design	Twin Asymmetrical loading
Number of Drivers	1
Woofer Size / Voice Coil Diameter / Design	15" / 3" / Inside Outside
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium
Protection	Thermal breaker - autoreset

### Speaker Input

Speaker Input	2x Neutrik Speakon®, Terminal Block
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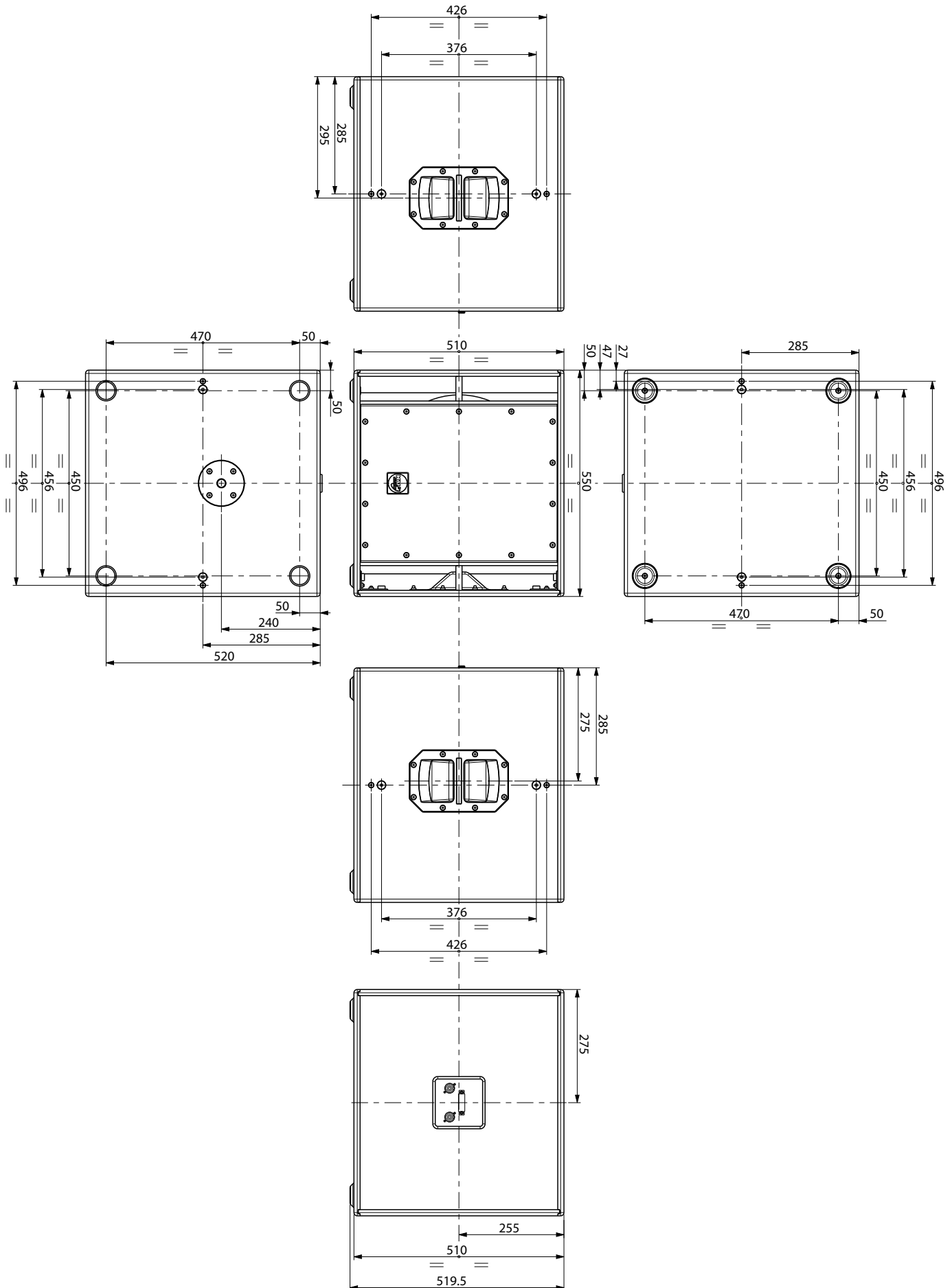
### Cabinet

Cabinet Material	Baltic birch
Handles	2
Pole Mount	M20
Flyware	8x M10 suspension points
Color	"Orange peeled" Matt Black or any RAL

### Physical Dimensions

Height	510mm (20.08")
Width	550mm (21.65")
Depth	570mm (22.44")
Weight	31kg (68.34lbs)





## ESD1.18

### Application:

- Specifically designed as a passive subwoofer to accompany any of the ESD range to create true full range system performance
- Fixed installation
- Portable PA
- Bars-small entertainment projects
- Scalable into larger systems



MODEL NUMBER:  
**ESD1.18**  
PART NUMBER:  
**KVV 987 242**

### Description:

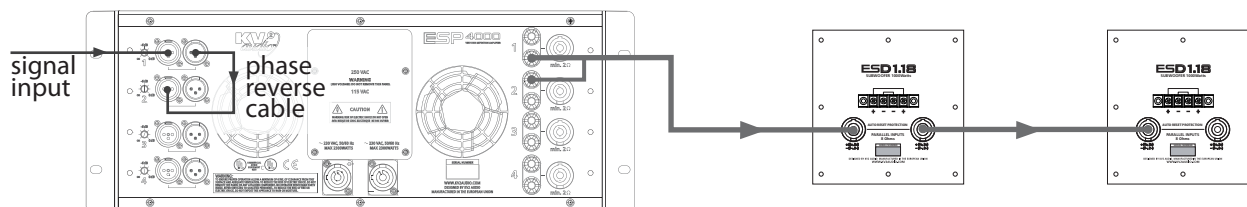
The ESD1.18 is a high output subwoofer. The ESD1.18 is a passive version of the active EX1.8, 18" subwoofer and features the same high quality neodymium driver. The unit provides a very firm foundation on which to build a powerful ESD system.

With a power handling of 1000 watts, the ESD1.18 is capable of delivering controlled bass response at very high output levels from a relatively small cabinet.

The ESD1.18 woofer is protected by a reverse thermal-circuit breaker (autoreset) and features a professional Baltic Birch construction with a wear resistant polymer coating and a specially designed handle for simplified handling and carrying. The ESD1.18 is also available in any RAL colour.

### Connection:

The ESD1.18 features both Speakon (NL4) connectors and a terminal block. The connectors are interconnected in parallel to allow the "daisy chaining" of additional ESD1.18's.

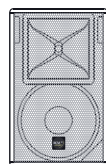


PARALLEL CONNECTION OF THE ESD1.18 (8Ω) FROM THE BRIDGED ESP4000 - TOTAL IMPEDANCE 4Ω

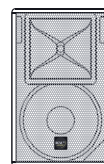
### Configurations example:

2x ESD1.18 + 2x ESD12

ESD1.12

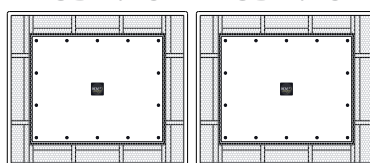


ESD1.12



ESD1.18

ESD1.18



ESD1.12 + 1x ESD10 or 4x ESD6

## ESD1.18 Specifications:

### System Acoustic Performance

Max SPL Long-term	131dB
Max SPL Peak	134dB
-3dB Response	30Hz ÷ 150Hz
Recommended Power	1000W
Sensitivity	100dB
Impedance	8Ω
Crossover Point	80Hz ÷ 150Hz

### Low Frequency Section

Acoustic Design	<i>Twin Asymmetrical loading</i>
Number of Drivers	1
Woofer Size / Voice Coil Diameter / Design	18" / 4" / <i>Inside outside</i>
Magnet Type	<i>Neodymium</i>
Diaphragm Material	<i>Epoxy Reinforced Cellulose</i>
Protection	<i>Thermal breaker - autoreset</i>

### Speaker Input

Speaker Input	<i>2x Neutrik Speakon®, Terminal Block</i>
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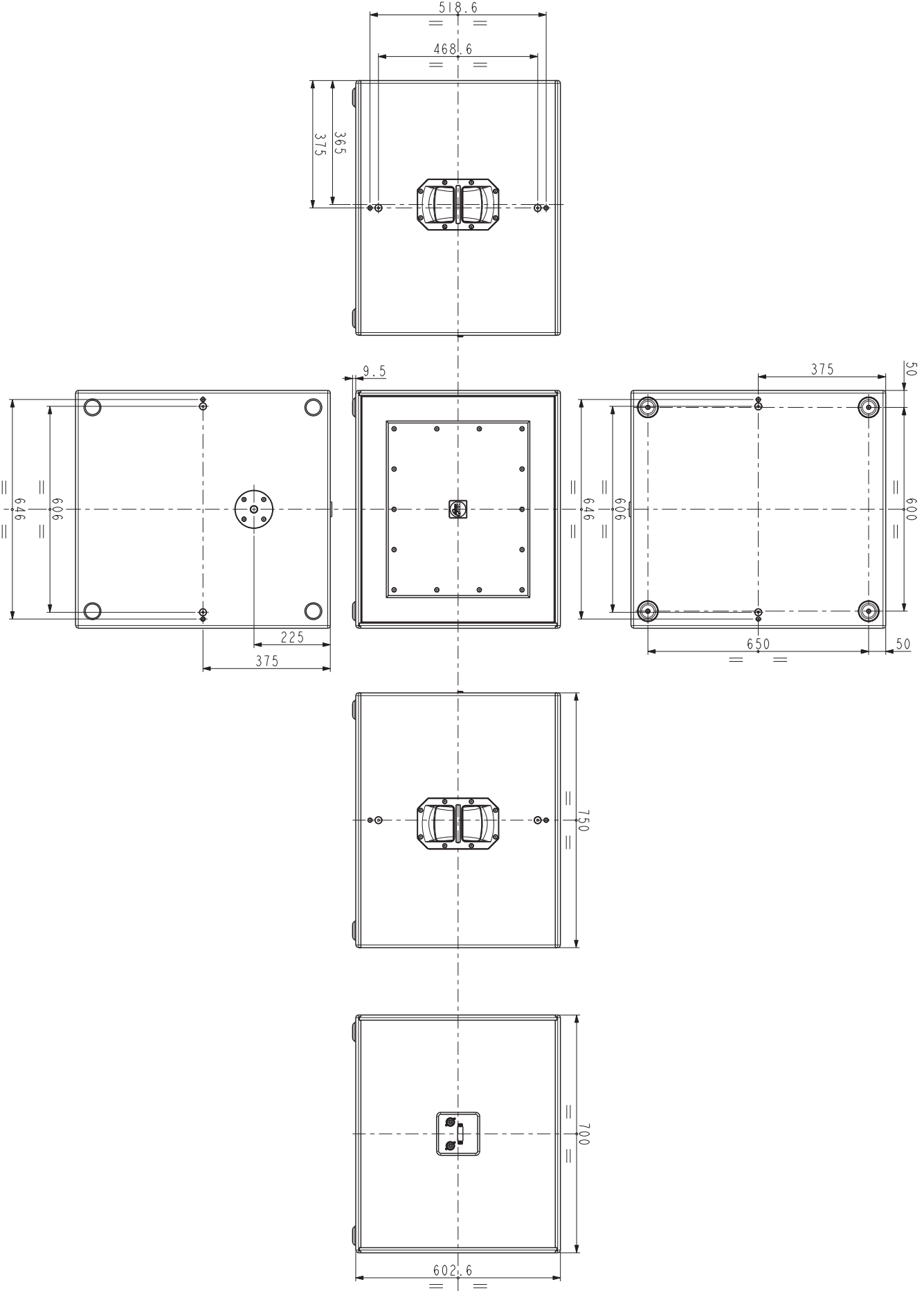
### Cabinet

Cabinet Material	<i>Baltic birch</i>
Handles	2
Pole Mount	M20
Flyware	<i>8x M10 suspension points</i>
Color	<i>"Orange peeled" Matt Black or any RAL</i>

### Physical Dimensions

Height	612mm (24.1")
Width	700mm (27.56")
Depth	750mm (29.5")
Weight	52kg (114.7lbs)

ESD1.18




Drawing

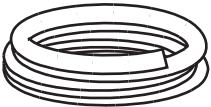
POLE MOUNT

PART NAME:  
**KV2-H, Speaker pole - universal**

PART NUMBER:  
**KVV 987 130**

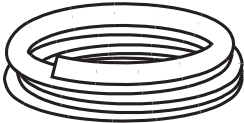


SPEAKER CABLES




PART NAME:  
**1m - round flexible speaker cable,  
cross section 2 x 1.5mm**

PART NUMBER:  
**KVV 987 250**



PART NAME:  
**1m - round flexible speaker cable,  
cross section 4 x 2.5mm**

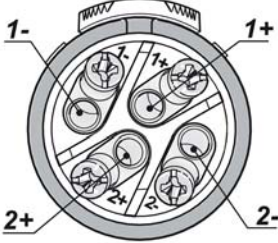
PART NUMBER:  
**KVV 987 251**



PART NAME:  
**SPEAKON NL4**

PART NUMBER:  
**KVV 987 240**

**ESD, Speakon NL4 wiring**



positive pin  
(1 +, 2 + parallel)

negative pin  
(1 -, 2 - parallel)

RECOMMENDED SPEAKER CABLE LENGTHS

MINIMUM CROSS SECTION [mm <sup>2</sup> ]	LENGTH [m], impedance 4Ω	LENGTH [m], impedance 8Ω	LENGTH [m], impedance 16Ω
1.5	8	15	30
2.5	15	30	60
2 x 2.5	20	40	90
4	25	50	100

**WARRANTY:**

Your ESD is covered against defects in material and workmanship.  
Refer to your supplier for more details.

**SERVICE:**

In the unlikely event that your ESD develops a problem, it must be returned to an authorised distributor, service centre or shipped directly to our factory. Because of the complexity of the design and the risk of electrical shock, all repairs must be attempted only by qualified technical personnel.

If the unit needs to be shipped back to the factory, it must be sent in its original carton. If improperly packed, the unit may be damaged.

To obtain service, contact your nearest KV2 Audio Service Centre, Distributor or Dealer.



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